PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference G204020	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2004/010839	International filing date (day/month/year) 29 July 2004 (29.07.2004)	Priority date (day/month/year) 30 July 2003 (30.07.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant ZEON CORPORATION				

1.	This international preliminary re International Searching Authority		I) is issued by the International Bureau on behalf of the		
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any refere to the international preliminary r		he International Searching Authority should be read as a reference ir I) instead.		
3.	3. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inter	national application		
	Box No. VIII	Certain observations on the	e international application		
4.			gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority		
	··· <u>-</u>				
			Date of issuance of this report 22 May 2006 (22.05.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		ombettes	Authorized officer Yoshiko Kuwahara		
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION G204020 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/JP2004/010839 29.07.2004 30.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant ZEON CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Imernational application No.
PCT/JP2004/010839

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:
	*	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/010839

Box No. V Reasoned statement under citations and explanations			Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; supporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims	4-6	YES
		Claims	1-3, 7-10	NO.
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

2. Citations and explanations:

Document 1: JP 7-51377 A Document 2: JP 60-92773 A Document 3: JP 2000-51361 A

Claims 1-3, 9 and 10

Document 1 describes a balloon catheter for the aorta.

In addition, document 2 describes a catheter that is inserted via the brachial vein into the pulmonary artery and balloon pumping is performed, and it also describes providing a pulmonary arterial pressure measurement hole 7 in the vicinity of the balloon. Therefore, this examination finds that document 2 describes insertion via the upper arm of a balloon catheter for balloon pumping, and in a balloon catheter for balloon pumping used by positioning the distal end of the catheter downstream in the artery, the provision of a hole for the measurement of arterial pressure in the catheter member in the vicinity of the balloon so that arterial pressure upstream of the balloon can be measured.

Therefore, this examination finds that persons skilled in the art can easily conceive of the inventions of claims 1-3, 9, and 10 based on documents 1 and 2.

Claims 7 and 8

Document 3 describes a balloon catheter comprising components equivalent to the "two-lumen tube," "balloon support tube" and a "balloon" of this application.

Therefore, this examination finds that persons skilled in the art can easily conceive of the inventions of claims 7 and 8 based on documents 1-3.

Claims 4-6

Documents 1-3 neither describe nor suggest the construction wherein "an outer tube and an inner tube are affixed around the entire periphery of the aperture margin of the blood inflow hole" of claim 4, and the construction wherein "in the cavity, the inner tube is exposed exterior to the outer tube, and a blood flow inlet hole is formed in the interior tube located in the interior of the cavity" of claim 5.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/010839

	Box No. VII Certain defects in the International application		
ĺ	The following defects in the form or contents of the international application have been noted:		
	The "mm 3 " in Par. Nos. 0010, 0037, 0066, 0069, 0082 and claim 3 appears to be a typographical error for "mm 2 ".		
	It appears that there is a typographical error in the document number of "JP 4-343355 gazette" in Par. No. 0004.		